

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/559,952  
Source: 1FWP  
Date Processed by STIC: 12/20/05

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/559,952

TIME: 10:25:16

Input Set : A:\1003 SEQLIST.txt

Output Set: N:\CRF4\12202005\J559952.raw

4 <110> APPLICANT: Roche, Andrew  
 5 Hansen, Martin Chr.  
 6 Villsen, Inge D.  
 7 Schrotz-King, Petra  
 8 Henningsen, Jeannette  
 9 Lund Jorgensen, Trine Louise  
 11 <120> TITLE OF INVENTION: Extracellular Aspergillus Polypeptides  
 14 <130> FILE REFERENCE: 13403.1003  
 C--> 16 <140> CURRENT APPLICATION NUMBER: US/10/559,952  
 C--> 16 <141> CURRENT FILING DATE: 2005-12-09  
 16 <160> NUMBER OF SEQ ID NOS: 49  
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 260  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Aspergillus Fumigatus  
 25 <400> SEQUENCE: 1  
 26 Met Leu Ala Ser Phe Gln Phe Cys Ile Leu Pro Arg Thr Tyr Arg Thr  
 27 1 5 10 15  
 28 Leu Leu Cys Ser Ala Gly Ala Gly Pro Leu Leu Ile Ile Gln Phe Val  
 29 20 25 30  
 30 Thr Val Ala Ser Ala Leu Ala Leu Ala Pro Thr Ala Val Val Ala Arg  
 31 35 40 45  
 32 Gln Gly Ala Ala Ala Phe Val Thr Val Asn Ser Ile Asp Val Cys Pro  
 33 50 55 60  
 34 Lys Lys Val Ala Gln Glu Ile Ile Asn Pro Gly Pro Lys Val Val Thr  
 35 65 70 75 80  
 36 Thr Pro Tyr Thr Cys Asp Gln Val Lys Leu Gly His Gly Leu Asp Val  
 37 85 90 95  
 38 Ser Tyr Tyr Asn Phe Asp Ile Glu Pro Leu Thr Lys Asp Thr Phe Pro  
 39 100 105 110  
 40 Tyr Cys Lys Ala Leu Lys Val Phe Asp Asn Glu Gly Cys Leu Gly Phe  
 41 115 120 125  
 42 Pro Thr Leu Trp Ile Pro Leu Glu Ser Pro Leu Glu Asp Lys Cys Ile  
 43 130 135 140  
 44 Pro Glu His Tyr Phe Ser Asp Glu Val Lys Ser Ile Ser Phe Gln Leu  
 45 145 150 155 160  
 46 Asp Cys Arg Glu Asp Ala Pro Val Lys Lys Glu Pro Tyr Gly Pro Lys  
 47 165 170 175  
 48 Glu Gly Ala Glu Gln Ser Ala Pro Gln Ala Glu His Ser Thr Lys Gln  
 49 180 185 190  
 50 Asp Ala Gln Gln Gly Ser His Gln Gly Gln Glu Val Gln Asn Ser Pro  
 51 195 200 205

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/559,952

TIME: 10:25:16

Input Set : A:\1003 SEQLIST.txt

Output Set: N:\CRF4\12202005\J559952.raw

```

52 Lys Gln Glu Ala Arg Gln Gly Ser Arg Pro Ala Glu Ala Ala Pro Lys
53      210                      215                      220
54 Gln Glu Gln Glu Ala Glu Gln Ala Ser Glu Ala Ala Pro Glu Lys Lys
55 225                      230                      235                      240
56 Ala Ser Asn Pro Ala Asp Ser Leu Gly Leu Gly Glu Leu Thr Lys Val
58                      245                      250                      255
59 Leu Gly Phe Arg
60      260
62 <210> SEQ ID NO: 2
63 <211> LENGTH: 107
64 <212> TYPE: PRT
65 <213> ORGANISM: Aspergillus Fumigatus
67 <400> SEQUENCE: 2
68 Val Arg Phe Pro Val Pro Asp Asp Ile Thr Val Lys Gln Ala Thr Glu
69 1      5                      10                      15
70 Lys Cys Gly Asp Gln Ala Gln Leu Ser Cys Cys Asn Lys Ala Thr Tyr
71      20                      25                      30
72 Ala Gly Asp Val Thr Asp Ile Asp Glu Gly Ile Leu Ala Gly Thr Leu
73      35                      40                      45
74 Lys Asn Leu Ile Gly Gly Gly Ser Gly Thr Glu Gly Leu Gly Leu Phe
75      50                      55                      60
76 Asn Gln Cys Ser Lys Leu Asp Leu Gln Ser Pro Ile Ile Gly Ile Pro
77 65                      70                      75                      80
78 Ile Gln Asp Leu Val Asn Gln Lys Cys Lys Gln Asn Ile Ala Cys Cys
79      85                      90                      95
80 Gln Asn Ser Pro Ser Asp Ala Val Arg Phe Pro
81      100                      105
83 <210> SEQ ID NO: 3
84 <211> LENGTH: 318
85 <212> TYPE: PRT
86 <213> ORGANISM: Aspergillus Fumigatus
88 <400> SEQUENCE: 3
89 Met Ala Thr Pro Lys Val Gly Ile Asn Gly Phe Gly Arg Ile Gly Arg
90 1      5                      10                      15
91 Ile Val Gly Leu Asn Ser Leu Ser His Gly Val Asp Val Val Ala Val
92      20                      25                      30
93 Asn Asp Pro Phe Ile Glu Val His Tyr Ala Ala Tyr Met Leu Lys Tyr
94      35                      40                      45
95 Asp Thr Thr His Gly Gln Phe Lys Gly Thr Ile Glu Thr Tyr Asp Gln
96      50                      55                      60
97 Gly Leu Ile Val Asn Gly Lys Lys Ile Arg Phe Tyr Ala Glu Lys Asp
98 65                      70                      75                      80
99 Pro Ser Gln Ile Pro Trp Ser Glu Thr Gly Ala Ala Tyr Ile Val Glu
100      85                      90                      95
101 Ser Thr Gly Val Phe Thr Thr Lys Glu Lys Ala Ser Ala His Leu Lys
102      100                      105                      110
103 Gly Gly Ala Lys Lys Val Ile Ile Ser Ala Pro Ser Ala Asp Ala Pro
104      115                      120                      125
105 Met Phe Val Met Gly Val Asn Asn Thr Thr Tyr Thr Ser Asp Ile Gln

```

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/559,952

TIME: 10:25:16

Input Set : A:\1003 SEQLIST.txt

Output Set: N:\CRF4\12202005\J559952.raw

```

106      130      135      140
107 Val Leu Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala Pro Leu Ala
108 145      150      155      160
109 Lys Val Ile Asn Asp Lys Phe Gly Ile Val Glu Gly Leu Met Thr Thr
110      165      170      175
111 Val His Ser Tyr Thr Ala Thr Gln Lys Val Val Asp Ala Pro Ser Asn
112      180      185      190
113 Lys Asp Trp Arg Gly Gly Arg Thr Ala Ala Gln Asn Ile Ile Pro Ser
114      195      200      205
115 Ser Thr Gly Ala Ala Lys Ala Val Gly Lys Val Ile Pro Ser Leu Asn
116      210      215      220
117 Gly Lys Leu Thr Gly Met Ala Met Arg Val Pro Thr Ser Asn Val Ser
118 225      230      235      240
119 Val Val Asp Leu Thr Cys Arg Leu Glu Lys Gly Ala Ser Tyr Asp Glu
120      245      250      255
121 Ile Lys Gln Ala Ile Lys Ala Ala Ser Glu Glu Gly Glu Leu Lys Asn
122      260      265      270
123 Ile Leu Gly Tyr Thr Glu Asp Asp Val Val Ser Ser Asp Leu Asn Gly
124      275      280      285
125 Asp Glu Arg Ser Ser Ile Phe Asp Ala Lys Ala Gly Ile Ser Leu Asn
126      290      295      300
127 Pro Asn Phe Val Lys Leu Val Ala Trp Tyr Asp Asn Glu Trp
128 305      310      315
130 <210> SEQ ID NO: 4
131 <211> LENGTH: 438
132 <212> TYPE: PRT
133 <213> ORGANISM: Aspergillus Fumigatus
135 <400> SEQUENCE: 4
136 Met Pro Ile Ser Lys Ile His Ala Arg Ser Val Tyr Asp Ser Arg Gly
137 1      5      10      15
138 Asn Pro Thr Val Glu Val Asp Val Ala Thr Glu Thr Gly Leu His Arg
139      20      25      30
140 Ala Ile Val Pro Ser Gly Ala Ser Thr Gly Gln His Glu Ala His Glu
141      35      40      45
142 Leu Arg Asp Gly Asp Lys Thr Gln Trp Gly Gly Lys Gly Val Leu Lys
143      50      55      60
144 Ala Val Lys Asn Val Asn Glu Thr Ile Gly Pro Ala Leu Ile Lys Glu
145 65      70      75      80
146 Asn Ile Asp Val Lys Asp Gln Ser Lys Val Asp Glu Phe Leu Asn Lys
147      85      90      95
148 Leu Asp Gly Thr Ala Asn Lys Ser Asn Leu Gly Ala Asn Ala Ile Leu
149      100      105      110
150 Gly Val Ser Leu Ala Val Ala Lys Ala Gly Ala Ala Glu Lys Gly Val
151      115      120      125
152 Pro Leu Tyr Ala His Ile Ser Asp Leu Ala Gly Thr Lys Lys Pro Tyr
153      130      135      140
154 Val Leu Pro Val Pro Phe Gln Asn Val Leu Asn Gly Gly Ser His Ala
155 145      150      155      160
156 Gly Gly Arg Leu Ala Phe Gln Glu Phe Met Ile Val Pro Asp Ser Ala

```

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/559,952

TIME: 10:25:16

Input Set : A:\1003 SEQLIST.txt

Output Set: N:\CRF4\12202005\J559952.raw

```

157          165          170          175
158 Pro Ser Phe Ser Glu Ala Leu Arg Gln Gly Ala Glu Val Tyr Gln Lys
159          180          185          190
160 Leu Lys Ala Leu Ala Lys Lys Lys Tyr Gly Gln Ser Ala Gly Asn Val
161          195          200          205
162 Gly Asp Glu Gly Gly Val Ala Pro Asp Ile Gln Thr Ala Glu Glu Ala
163          210          215          220
164 Leu Asp Leu Ile Thr Glu Ala Ile Glu Gln Ala Gly Tyr Thr Gly Lys
165 225          230          235          240
166 Ile Lys Ile Ala Met Asp Val Ala Ser Ser Glu Phe Tyr Lys Ala Asp
167          245          250          255
168 Val Lys Lys Tyr Asp Leu Asp Phe Lys Asn Pro Glu Ser Asp Pro Ser
169          260          265          270
170 Lys Trp Leu Thr Tyr Glu Gln Leu Ala Asp Leu Tyr Lys Ser Leu Ala
171          275          280          285
172 Ala Lys Tyr Pro Ile Val Ser Ile Glu Asp Pro Phe Ala Glu Asp Asp
173          290          295          300
174 Trp Glu Ala Trp Ser Tyr Phe Tyr Lys Thr Ser Asp Phe Gln Ile Val
175 305          310          315          320
176 Gly Asp Asp Leu Thr Val Thr Asn Pro Gly Arg Ile Lys Lys Ala Ile
177          325          330          335
178 Glu Leu Lys Ser Cys Asn Ala Leu Leu Leu Lys Val Asn Gln Ile Gly
179          340          345          350
180 Thr Leu Thr Glu Ser Ile Gln Ala Ala Lys Asp Ser Tyr Ala Asp Asn
181          355          360          365
182 Trp Gly Val Met Val Ser His Arg Ser Gly Glu Thr Glu Asp Val Thr
183          370          375          380
184 Ile Ala Asp Ile Ala Val Gly Leu Arg Ser Gly Gln Ile Lys Thr Gly
185 385          390          395          400
186 Ala Pro Cys Arg Ser Glu Arg Leu Ala Lys Leu Asn Gln Ile Leu Arg
187          405          410          415
188 Ile Glu Glu Glu Leu Gly Glu Asn Thr Val Tyr Ala Gly Ser Lys Phe
189          420          425          430
190 Arg Thr Ala Val Asn Leu
191          435
193 <210> SEQ ID NO: 5
194 <211> LENGTH: 728
195 <212> TYPE: PRT
196 <213> ORGANISM: Aspergillus Fumigatus
198 <400> SEQUENCE: 5
199 Met Arg Leu Thr Phe Ile Pro Ser Leu Ile Gly Val Ala Asn Ala Val
200 1          5          10          15
201 Cys Pro Tyr Met Thr Gly Glu Leu Asn Arg Arg Asp Glu Ile Ser Asp
202          20          25          30
203 Gly Asp Ala Ala Ala Thr Glu Glu Phe Leu Ser Gln Tyr Tyr Leu
204          35          40          45
205 Asn Asp Asn Asp Ala Phe Met Thr Ser Asp Val Gly Gly Pro Ile Glu
206          50          55          60
207 Asp Gln Asn Ser Leu Ser Ala Gly Glu Arg Gly Pro Thr Leu Leu Glu

```

## RAW SEQUENCE LISTING

DATE: 12/20/2005

PATENT APPLICATION: US/10/559,952

TIME: 10:25:16

Input Set : A:\1003 SEQLIST.txt

Output Set: N:\CRF4\12202005\J559952.raw

```

208 65          70          75          80
209 Asp Phe Ile Phe Arg Gln Lys Ile Gln Arg Phe Asp His Glu Arg Val
210          85          90          95
211 Pro Glu Arg Ala Val His Ala Arg Gly Ala Gly Ala His Gly Val Phe
212          100          105          110
213 Thr Ser Tyr Gly Asp Phe Ser Asn Ile Thr Ala Ala Ser Phe Leu Ala
214          115          120          125
215 Lys Glu Gly Lys Gln Thr Pro Val Phe Val Arg Phe Ser Thr Val Ala
216          130          135          140
217 Gly Ser Arg Gly Ser Ser Asp Leu Ala Arg Asp Val His Gly Phe Ala
218 145          150          155          160
219 Thr Arg Phe Tyr Thr Asp Glu Gly Asn Phe Asp Ile Val Gly Asn Asn
220          165          170          175
221 Ile Pro Val Phe Phe Ile Gln Asp Ala Ile Leu Phe Pro Asp Leu Ile
222          180          185          190
223 His Ala Val Lys Pro Arg Gly Asp Asn Glu Ile Pro Gln Ala Ala Thr
224          195          200          205
225 Ala His Asp Ser Ala Trp Asp Phe Phe Ser Gln Gln Pro Ser Thr Met
226          210          215          220
227 His Thr Leu Leu Trp Ala Met Ser Gly His Gly Ile Pro Arg Ser Phe
228 225          230          235          240
229 Arg His Val Asp Gly Phe Gly Val His Thr Phe Arg Phe Val Thr Asp
230          245          250          255
231 Asp Gly Ala Ser Lys Leu Val Lys Phe His Trp Lys Ser Leu Gln Gly
232          260          265          270
233 Lys Ala Ser Met Val Trp Glu Glu Ala Gln Gln Thr Ser Gly Lys Asn
234          275          280          285
235 Pro Asp Phe Met Arg Gln Asp Leu His Asp Ala Ile Glu Ala Gly Arg
236          290          295          300
237 Tyr Pro Glu Trp Glu Leu Gly Val Gln Ile Met Asp Glu Glu Asp Gln
238 305          310          315          320
239 Leu Arg Phe Gly Phe Asp Leu Leu Asp Pro Thr Lys Ile Val Pro Glu
240          325          330          335
241 Glu Phe Val Pro Ile Thr Lys Leu Gly Lys Met Gln Leu Asn Arg Asn
242          340          345          350
243 Pro Arg Asn Tyr Phe Ala Glu Thr Glu Gln Val Met Phe Gln Pro Gly
244          355          360          365
245 His Ile Val Arg Gly Val Asp Phe Thr Glu Asp Pro Leu Leu Gln Gly
246          370          375          380
247 Arg Leu Phe Ser Tyr Leu Asp Thr Gln Leu Asn Arg His Gly Gly Pro
248 385          390          395          400
249 Asn Phe Glu Gln Leu Pro Ile Asn Gln Pro Arg Val Pro Val His Asn
250          405          410          415
251 Asn Asn Arg Asp Gly Ala Gly Gln Met Phe Ile Pro Leu Asn Pro His
252          420          425          430
253 Ala Tyr Ser Pro Lys Thr Ser Val Asn Gly Ser Pro Lys Gln Ala Asn
254          435          440          445
255 Gln Thr Val Gly Asp Gly Phe Phe Thr Ala Pro Gly Arg Thr Thr Ser
256          450          455          460

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/559,952

DATE: 12/20/2005  
TIME: 10:25:17

Input Set : A:\1003 SEQLIST.txt  
Output Set: N:\CRF4\12202005\J559952.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220>

to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:36; Xaa Pos. 176,179

Seq#:37; Xaa Pos. 2,5

Seq#:38; N Pos. 579,580,581,588,589,590

Seq#:39; N Pos. 526,527,528,535,536,537

## VERIFICATION SUMMARY

DATE: 12/20/2005

PATENT APPLICATION: US/10/559,952

TIME: 10:25:17

Input Set : A:\1003 SEQLIST.txt

Output Set: N:\CRF4\12202005\J559952.raw

L:16 M:270 C: Current Application Number differs, Replaced Current Application No  
L:16 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:722 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:160  
L:724 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:176  
L:760 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:783 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:540  
L:815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:480